

Water Quality Standards Review

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Water Protection Forum December 11, 2018



- Public Notice of Intent to Initiate Triennial Review
- Opportunity to receive and refine topics and issues
- Department carry-over list from previous rulemakings
- Any revisions or changes required for the 2018 rulemaking, following approval



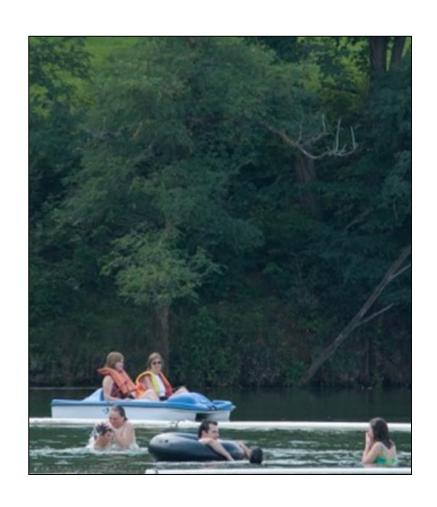


- New federal recommended Section 304(a) criteria
 - Human Health Protection (HHP)
- Risk factor assumptions in rule, 10 CSR 20-7.031(5)(M)
 - Carcinogenic Risk
 - Drinking Water Consumption
 - Fish/Shellfish Consumption





- New federal recommended Section 304(a) criteria
 - Recreational Uses (WBCR/SCR)
- 2012 Bacteria/Pathogen
 - Indicator Bacteria (E. coli and/or Enterococci)
 - Illness Rate
 - Magnitude (geometric mean, statistical threshold value)
- 2019 Algal Toxins (?)



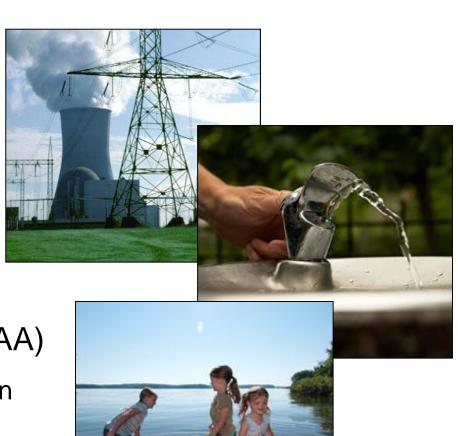


- New federal recommended Section 304(a) criteria
 - Protection of Aquatic Life
- 2013 Ammonia Criteria
- Other criteria deferred
 - Metals (Al, Cd, Fe, Pb, Se)
 - Cyanide and hydrogen sulfide
 - Sulfate and chloride





- Updated Use Designations
- Existing Use Changes
 - Industrial Uses
 - Drinking Water Supply
- Use Attainability Analysis (UAA)
 - Whole Body Contact Recreation
 - Secondary Contact Recreation







- Wetland Criteria
 - Narrative
 - Numeric

- Wetland Classification
- Wetland Use Designation







- Aquatic Life Protection
 Use Attainability Analysis

 Protocol
- Regional Dissolved Oxygen Criteria for SE Missouri

